

WEST BRANCH SUSQUEHANNA RIVER BASIN

01545500 WEST BRANCH SUSQUEHANNA RIVER AT RENOVO, PA

LOCATION.--Lat 41°19'28", long 77°45'03", Clinton County, Hydrologic Unit 02050203, on right bank at abandoned Eighth Street bridge abutment at South Renovo, and 1.0 mi upstream from Paddy Run.

DRAINAGE AREA.--2,975 mi².

PERIOD OF RECORD.--October 1907 to current year. Gage height records collected July 1895 to December 1903 and October 1905 to September 1974 are contained in reports of U.S. Weather Bureau.

REVISED RECORDS.--WSP 756: Drainage area. WSP 1302: 1908-10, 1912-13, 1914-15(M). WSP 2103: 1968 (monthly mean). WDR PA-88-2: 1987.

GAGE.--Water-stage recorder. Datum of gage is 634.19 ft above sea level. Prior to Mar. 17, 1930, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow slightly regulated by 4 flood-control reservoirs which have a combined capacity of 316,000 acre-ft. Several measurements of water temperature were made during the year. Satellite and landline telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known prior to 1895, 27.3 ft, June 1, 1889, from floodmark, discharge, about 211,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2250	463	4790	2420	e1800	14700	4120	5450	3850	2530	1120	569
2	1950	489	3960	2150	e1700	12900	3710	5140	3260	2220	1550	567
3	1250	582	3470	2070	e1600	10800	4040	5010	3060	1950	1410	570
4	990	2150	3080	2500	e1500	8900	13600	4430	2870	1880	1180	549
5	829	2110	2920	4350	e1400	7770	20100	4120	3000	1820	1040	520
6	758	1560	2850	4830	e1400	6670	15600	3780	3140	1710	1000	546
7	747	1210	2970	4300	e1400	5990	11500	3440	3560	1600	1420	529
8	693	1080	2680	3950	e1300	5310	10300	3240	3320	1360	5390	506
9	603	978	2460	3510	e1300	4920	12100	3020	2810	1250	4200	434
10	562	914	2270	3480	e1400	4600	11800	2740	2310	1200	2650	409
11	622	887	2230	4080	e1600	4320	9800	2690	2090	1200	1960	410
12	748	851	2280	4180	e1700	5110	8510	2530	2180	1160	1640	455
13	895	802	2190	3990	e2000	5690	7440	2420	2610	1050	1470	733
14	919	758	e2700	3730	e2500	4950	6620	2370	5170	981	1300	1310
15	1100	697	e6830	3220	e4000	4530	5960	2260	6380	1000	1140	1080
16	1140	674	9380	e2900	e6400	4390	5540	2050	7810	1060	1100	914
17	1100	671	8240	e2600	5580	5990	5630	1920	7620	1170	1200	838
18	976	658	6620	e2100	4860	7730	7610	1750	6620	1060	961	708
19	830	612	5830	e2000	4570	7720	9000	3740	7700	979	890	639
20	711	588	4860	e2300	4520	7030	8750	7240	7200	890	832	597
21	634	589	5000	e2100	4700	6660	9760	6700	6200	798	742	587
22	632	618	4650	e1900	4130	11900	19100	5280	7290	753	679	584
23	636	694	4220	e2000	4210	13500	25500	4500	6740	702	674	648
24	609	649	3740	e2100	e5200	10900	21800	7970	5630	681	715	726
25	585	691	e3200	e2200	12300	9510	16600	11600	4490	631	812	1440
26	577	3460	e2800	e2000	21700	8280	12600	9900	3740	613	784	1680
27	564	20200	e2700	e1900	20000	7110	10200	7440	3570	577	804	1830
28	552	16000	e2600	e1800	21200	6470	8740	5910	4190	580	781	1670
29	535	9300	2500	e1700	19300	5940	7290	5130	3500	655	692	1410
30	513	6320	2400	e1600	---	5350	6380	4970	2850	700	650	1160
31	488	---	2410	e1800	---	4680	---	4670	---	936	598	---
TOTAL	25998	77255	118830	85760	165270	230320	319700	143410	134760	35696	41384	24618
MEAN	839	2575	3833	2766	5699	7430	10660	4626	4492	1151	1335	821
MAX	2250	20200	9380	4830	21700	14700	25500	11600	7810	2530	5390	1830
MIN	488	463	2190	1600	1300	4320	3710	1750	2090	577	598	409
CFSM	.28	.87	1.29	.93	1.92	2.50	3.58	1.56	1.51	.39	.45	.28
IN.	.33	.97	1.49	1.07	2.07	2.88	4.00	1.79	1.69	.45	.52	.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2000, BY WATER YEAR (WY)

MEAN	2181	3901	4992	5731	6237	10900	9905	7030	3911	2105	1397	1459
MAX	10330	16700	13570	19060	16640	34360	25010	16670	18840	8100	7826	9220
(WY)	1912	1951	1928	1937	1915	1936	1940	1919	1972	1928	1994	1975
MIN	139	174	307	196	1078	3141	2456	1436	659	368	166	166
(WY)	1931	1931	1931	1931	1934	1969	1925	1941	1999	1965	1930	1908

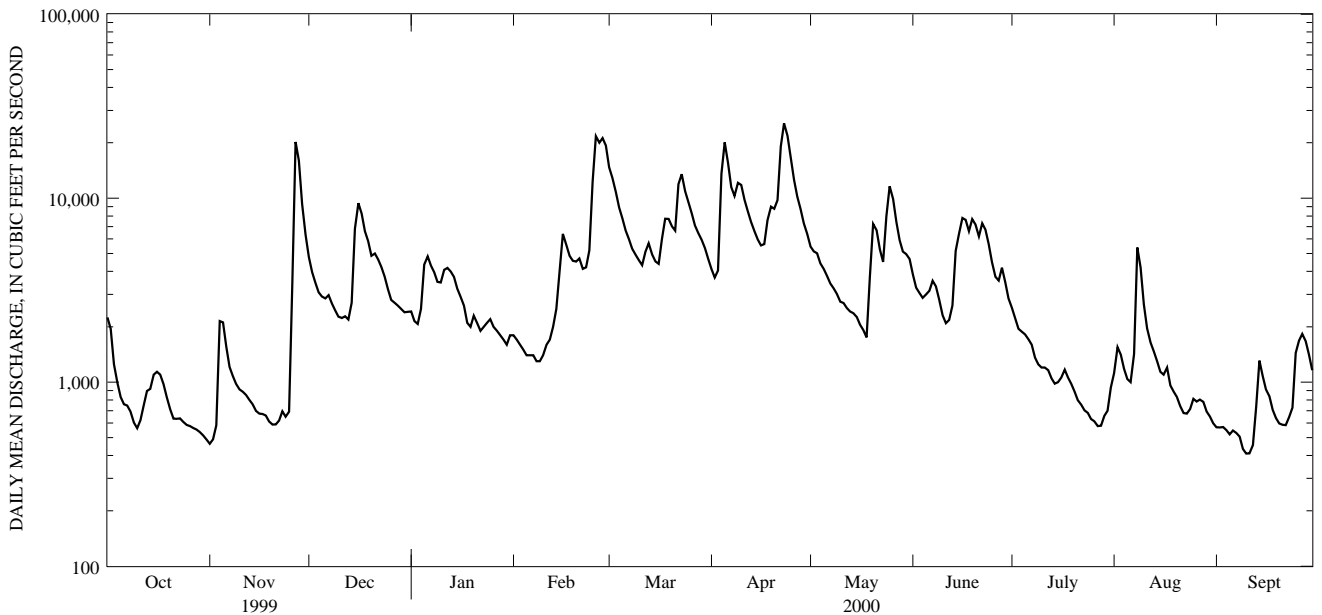
e Estimated.

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SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1908 - 2000	
ANNUAL TOTAL	1246237		1403001			
ANNUAL MEAN	3414		3833		4972	
HIGHEST ANNUAL MEAN					7683	
LOWEST ANNUAL MEAN					2579	
HIGHEST DAILY MEAN	e31000	Jan 25	25500	Apr 23	201000	Mar 18 1936
LOWEST DAILY MEAN	289	Sep 5	409	Sep 10	80	Dec 6 1908
ANNUAL SEVEN-DAY MINIMUM	332	Sep 1	470	Sep 6	104	Aug 29 1939
INSTANTANEOUS PEAK FLOW			26000	Apr 23	a236000	Mar 18 1936
INSTANTANEOUS PEAK STAGE			8.73	Apr 23	b29.39	Mar 18 1936
INSTANTANEOUS LOW FLOW					80	Dec 6 1908
ANNUAL RUNOFF (CFSM)	1.15		1.29		1.67	
ANNUAL RUNOFF (INCHES)	15.58		17.54		22.71	
10 PERCENT EXCEEDS	9390		8740		11800	
50 PERCENT EXCEEDS	1140		2300		2740	
90 PERCENT EXCEEDS	392		621		474	

- a From rating curve extended above 87,000 ft³/s on basis of slope-area measurement of peak flow.
- b From floodmark in gage.
- e Estimated.



1-YEAR HYDROGRAPH
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000